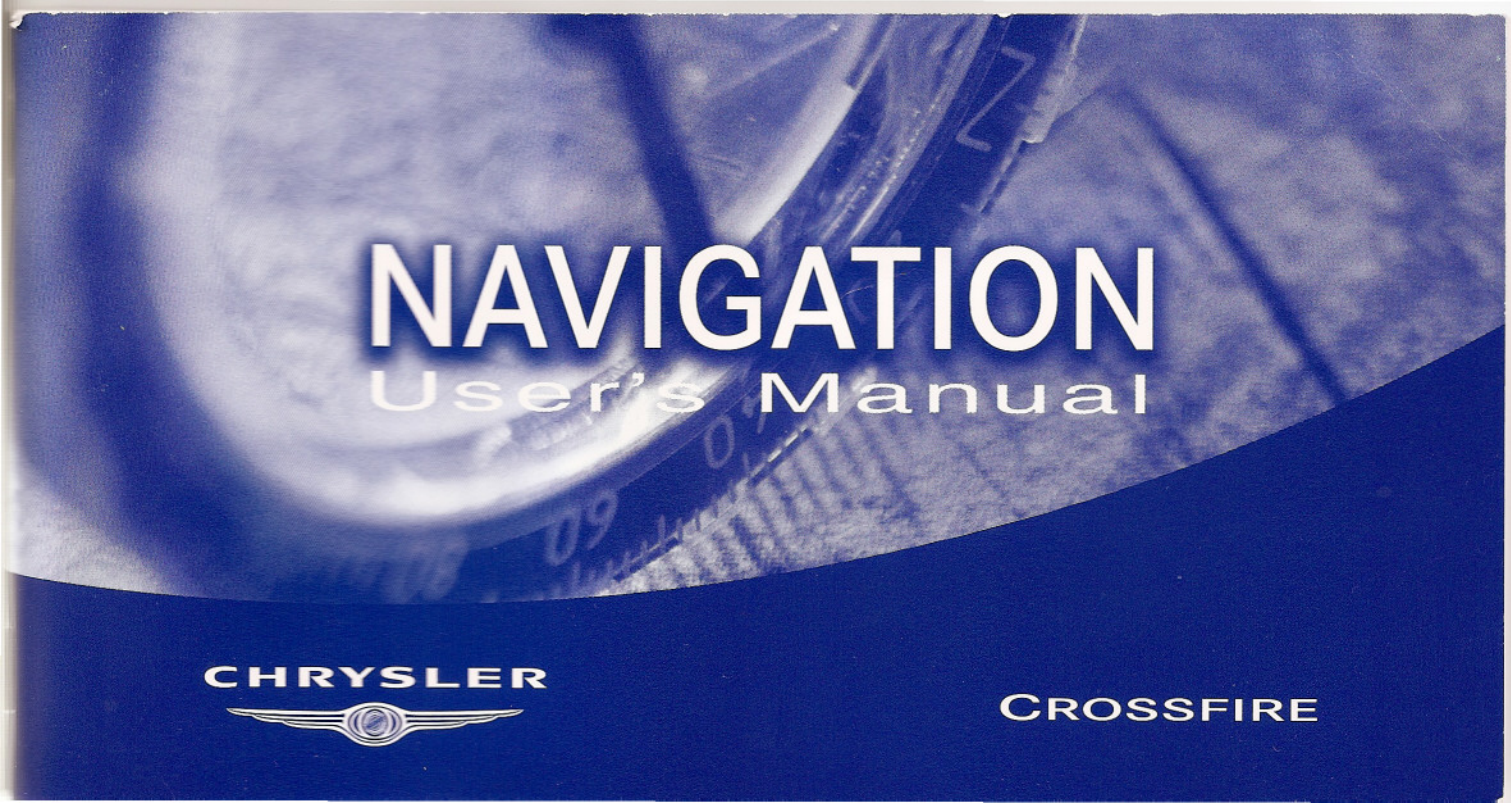

NAVIGATION

User's Manual

CHRYSLER

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GENERAL OPERATION

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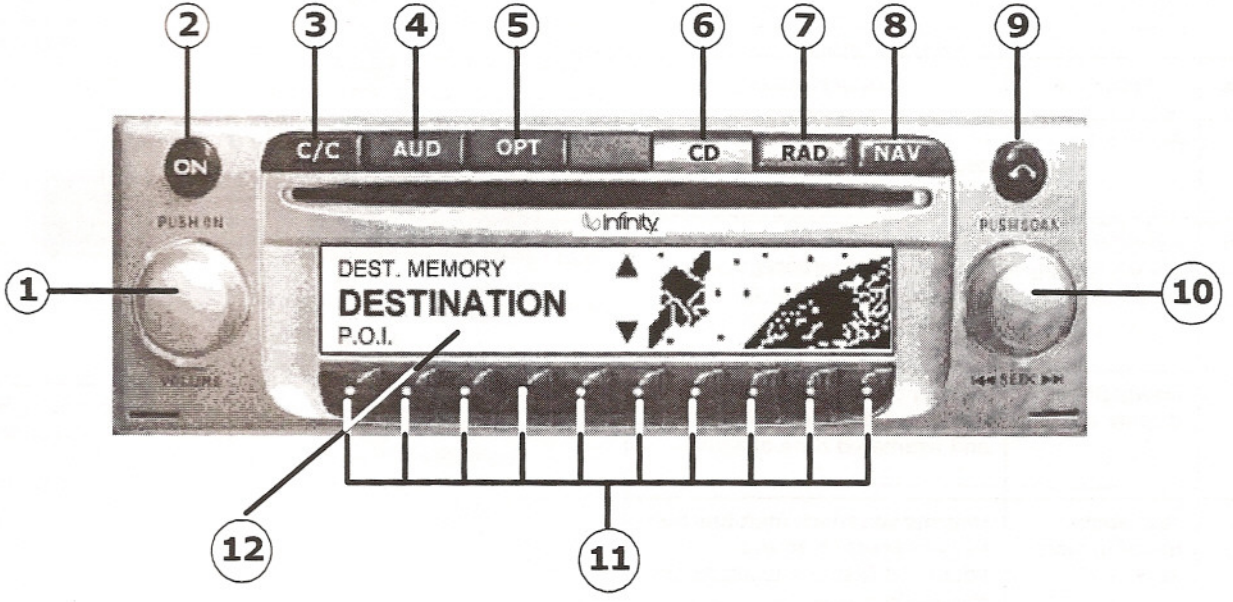
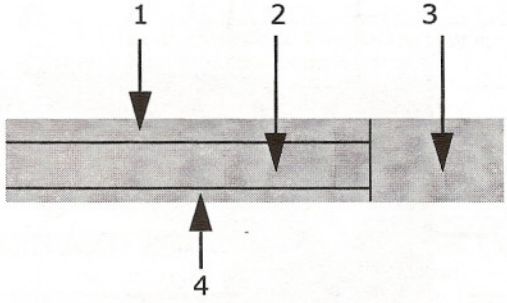
BUTTONS AND KNOBS

Button	Function	Description
1	Left knob	Dial left/right for volume control; push in to repeat the last navigation announcement and to hear the estimated time-of-arrival.
2	ON button	System power on/off when pressed.
3	C/C button	Press to display clock, set time or access compass.
4	AUD button	Set bass, balance and treble when pressed. Customize your unit's display and audio features when pressed for more than 2 seconds.
5	OPT button	Press to access context-sensitive options available for the active audio mode.
6	CD button	Press to switch to CD mode. If your unit is equipped with a CD changer, pressing this button for more than 2 seconds switches between CD and CD Changer.
7	RAD button	Switch between AM and FM modes.
8	NAV button Navigation	Switch to Navigation mode; cancel route guidance.
9	CD eject button	Eject CD in internal drive.
10	Right knob	AM/FM: Dial left/right to tune to the next/previous station. NAVIGATION: Select letters in speller for city/street and then push in to confirm destination.
11	Multi-function buttons	Access context-sensitive features, based on display prompts.
12	Display	See page 6, **Interpreting The Display.**


2
3
4
5
6
7
8
9
ON
C/C
AUD
OPT
CD
RAD
NAV
PUSH ON
Infinity
PUSH SOFT
DEST. MEMORY
DESTINATION
P.O.I.
VOLUME
SEEK
1
10
12
11

INTERPRETING THE DISPLAY

Area	Function	Description
1	Audio status	Identifies the active audio source. Reports features that are active such as RDS and PTY.
2	Detailed audio status.	Radio station frequency, CD track number, program type (PTY), smart speller for navigation, etc.
3	Navigation display area	Driving recommendations: distance and direction information and estimated time of arrival.
4	Text above multifunction keys	Informs you which multifunction keys to press to access additional features available for this audio mode.



TURNING THE RADIO ON AND OFF

To turn radio on	Press the ON button for 2 seconds. If the vehicle's ignition is off when the the ON button is pressed, the radio turns on and then shuts itself off automatically after 1 hour.	Or turn vehicle ignition on.
To turn radio off	Press the ON button. The radio will remain off until the ON button is pressed again.	Or turn vehicle ignition off. The radio will turn off approximately 5 seconds after the vehicle ignition is turned off. It will turn on automatically when the ignition is turned back on.
To keep radio on while ignition is off	Press the ON button within 5 seconds of turning off the ignition	

ADJUSTING VOLUME

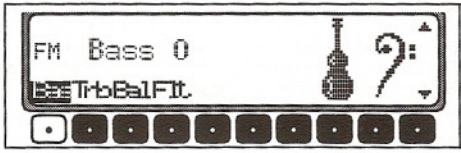
Turn the left knob to increase or decrease volume. The volume level appears on the display while it is being adjusted.

Audio programs and navigation announcements maintain separate volume levels. To set the volume for navigation announcements, turn the left knob while a navigation announcement is playing. Push in the left knob to replay the previous navigation announcement.

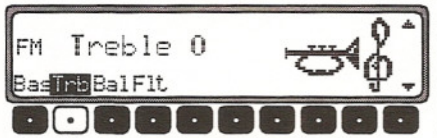
ADJUSTING SOUND QUALITY

To access the sound menu, press the **AUD** button for less than 2 seconds. The following adjustments are available from the sound menu: Bass (Bas), Treble (Trb), Balance (Bal) and Flat Frequency Response (Flt). Flat Frequency Response means that bass and treble return to their default values.

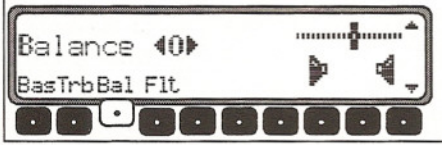
Separate bass and treble settings are maintained for FM, AM, CD, CD changer, navigation announcements and telephone operation. One and the same setting is maintained across all audio modes for balance. New settings take effect immediately. To exit the sound menu, either press the **AUD** button or wait for the previous display to reappear in 10 seconds .



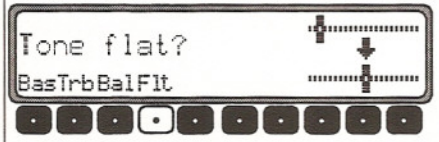
Bass: To adjust the bass, press the **AUD** button. If necessary, press the Bas multifunction key to display the bass menu. Turn the right knob to select the desired level. The display shows the audio mode being changed (AM, FM, CD, etc.). AM, FM, CD and CD changer each maintain their own bass setting.



Treble: To adjust the treble, press the **AUD** button followed by the **Trb** multifunction key. Turn the right knob to select the desired level. The display shows the audio mode being changed (AM, FM, CD, etc.). AM, FM, CD and CD changer each maintain their own treble setting.



Balance: To adjust the left/right speaker balance, press the **AUD** button followed by the **Bal** multifunction key. Turn the right knob to select the desired ratio between the left and right speakers.



Flat Frequency Response: To set bass and treble levels to a flat frequency response, press the **AUD** button followed by the **Flt** multifunction key.

"Tone flat?" will be displayed. Press the **Flt** multifunction key again to cause the tone adjustments bass and treble for the current audio source (such as FM) to be reset to mid-level (zero).

2

RADIO OPERATION

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RADIO OPERATION

The navigation radio processes these signals:

FM 87.9 MHz to 107.9 MHz
AM 530 KHz to 1700 KHz
RDS

Be sure to read about:

- channel selection methods
- all of the features available when listening to FM
- differences in radio behavior when RDS is active compared to when RDS is not active
- options available via the OPT hardkey when listening to FM radio

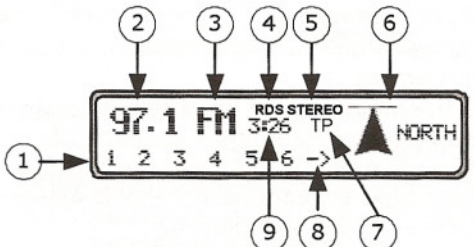
SWITCHING TO RADIO

Press the RAD button at any time to listen to the radio. The radio tunes to the last AM/FM band and station played. The display shows the station frequency, band and time-of-day.

SELECTING THE FM BAND

While listening to any radio station, press the RAD button again to switch between the AM and FM bands.

THE FM DISPLAY



1. 12 FM preset stations
2. PS name ("Program Service name","call letters"), if available, or station frequency;
3. band is FM
4. RDS appears while FM RDS is active. PTY appears if program type is active.

5. stereo indicator appears while radio is receiving stereo signals
6. compass appears when navigation is not active; while navigation is active, turn-by-turn driving recommendations appear here
7. TP indicator appears if the RDS transmitter is equipped with a traffic program. An inverted TP icon appears on the display while the traffic program is active.
8. press the multifunction key below this symbol to access FM preset stations 7 through 12.
9. **TUNE** appears here while manual tuning is active. Program type appears here if PTY is active. Otherwise, time of day is displayed.

CHANNEL SELECTION FOR FM RADIO

Methods to select FM radio stations are seek, scan, storing/recalling preset stations and manual tuning.

Seek

Turn the right knob clockwise or counter-clockwise to tune to the next/previous receivable and identifiable FM station. If no FM station is found, the tuner remains at the current frequency.

Scan

Push **in** the right knob to start an FM station search. The radio sweeps through the entire FM band. During the first pass, the radio plays 5 seconds of each **strong** station. For second and subsequent passes, the radio plays 5 seconds of every **available** station. The scan icon SC flashes while the radio scans.

Scan continues until it is stopped by one of:

- right knob is pushed in again
- right knob is turned clockwise or counter-clockwise

- any preset button is pressed
- **CLK**, **AUD**, **OPT**, **CD**, **RAD**,**NAV** or any multifunction key is pressed
- vehicle ignition is turned off.

Volume adjustments do not stop the scan. When RDS is active, scan stops only at RDS stations.

When PTY is active, scan stops only at programs of the selected program type (for example, R&B, Classical).

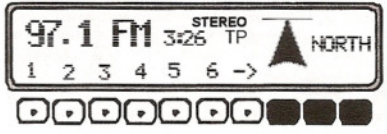
Manual FM Tuning

Refer to page 22 of this user manual for instructions to turn on/off FM manual tuning.

When RDS is active, manual tuning only stops at RDS stations.

Storing an FM Station

Up to 12 stations can be stored. To store the active FM station, press one of multifunction keys **1** through **6** or **7** through **12** until you hear the confirmation beep. Press the **->** multifunction key to access multifunction keys **7** through **12**.

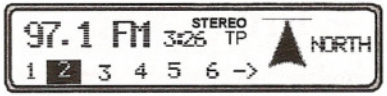


Recalling an FM station

Press one of the multifunction keys 1 through 6 or 7 through 12 for a brief moment. The radio tunes to the station associated with the multifunction key. The following is displayed:

- Program Service name (if available) or station frequency
- PTY "program type" appears in the display if it is available.

If the active station is assigned to a multifunction key, the number above the multifunction key is inverted as shown by multifunction key 2 in the diagram below.



OPT BUTTON DURING FM

While listening to an FM station, press the **OPT** button immediately followed by a multifunction key to access the following additional features.

.

OPT + Dis: choose which appears in the display: clock, frequency or program type

OPT + Tun: turn on/off manual FM tuning

OPT + Rds: turn on/off RDS

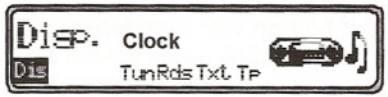
OPT + Txt: turn on/off RDS text display

OPT + Tp: access Traffic Program set-up

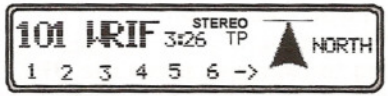
OPT + Dis: Choose Display

While listening to an FM station, press the OPT hardkey followed by the **Dis** multifunction key. Repeatedly press the **Dis** multifunction key until your choice of PTY, frequency or clock appears in the display.

Display Clock

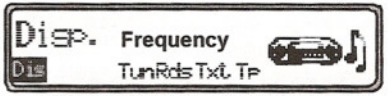


The radio waits a few seconds and then the display shows the current FM station and local time. Time is 3:26 in the example shown below.

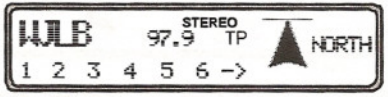


Display Frequency

While listening to FM radio, press the **OPT** button. Then press the **Dis** multifunction key until **Disp. Frequency** appears in the display.



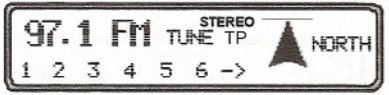
The radio waits a few seconds and then the display shows the FM station frequency. The frequency is 97.9 in the display shown below.



OPT + Tun: Manual Tuning

While listening to FM radio, press the **OPT** button followed by the **Tun** multifunction key.

The radio waits a few seconds and then the **TUNE** icon appears in the display.

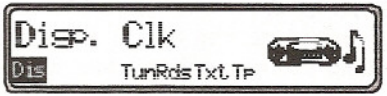


Turn the right knob clockwise or counter-clockwise to tune up/down in the FM waveband in steps of 200 kHz. Manual tuning is disabled after 20 seconds with no turns to the right knob, and TUN disappears from the display. When RDS is active, manual tuning stops only at RDS stations. When PTY is active, manual tuning only stops at stations with the selected PTY.

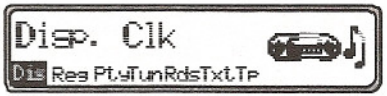
OPT + RDS: RDS Mode

The navigation radio receives RDS signals in the FM band. RDS is a technology that some radio stations use to broadcast inaudible information for the radio to evaluate. It is important for you to be aware of whether the radio is in RDS mode because this will affect which radio stations are available to you and the methods available to select the radio stations. Access to PTY (program type selection) and Reg (regional links) is only available when RDS is on.

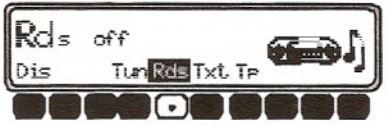
While listening to FM radio, press the **OPT** hardkey. If RDS is not active, the following display appears:



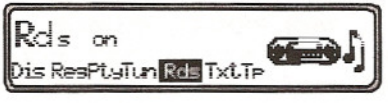
If RDS is active, the following display appears:



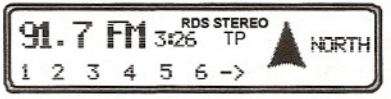
Quickly press the **RDS** multifunction key repeatedly until the desired on/off state of RDS appears in the display. The following display appears when RDS is off.



The following display appears when RDS is on.



After 8 seconds, the RDS display disappears. When RDS is active, the RDS icon appears on the top line of the display.



Regional Links On/Off

Many local radio stations only have a couple of different frequencies, and their coverage area is limited. Some local stations are linked together according to their region, so if the signal from a local radio station becomes weak, the RDS radio can switch to another local station in the same region. If you want the radio to stay tuned to the same local station regardless of the signal strength or quality, then you should turn the Regional facility on.

RDS must be on to access the display to turn on/off regional links. Repeatedly press the **Reg** multifunction key until you see the desired **Reg. On** or **Reg. Off** state.

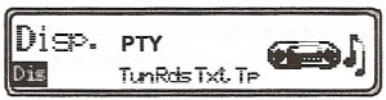
Program Types

Specific types of programs such as sports, classical music, etc. can be selected using the PTY function. The PTY function is only available while FM RDS is on.

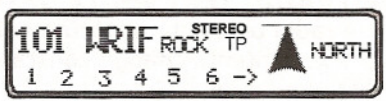
The PTY is transmitted by the RDS station if the broadcaster supports this function. You can display the selected transmitter's program type or perform a search for a specific PTY transmitter.

Although every program type may not be available in your area, program types are: News Service, Easy Listening, Information programs, Nostalgia, Sports, Jazz, Talk, Classical, Rock, R&B, Classic rock, Soft R&B, Adult Contemporary, Language, Soft Rock, Religious Music, Top 40, Religious Talk, Country, Personality, Oldies, Public, Weather forecast and 4 unspecified program types.

To select a program type: While listening to FM radio, press the **OPT** hardkey. Then press the **Dis** multifunction key repeatedly until **Disp. PTY** appears in the display.



The radio waits a few seconds and then the display shows the station program type if it is available. ROCK is the PTY for the display shown below.



There are 2 ways to select the program type: (1) repeatedly press the Pty multifunction key to display all of the program types available in your area, or (2) turn the right knob clockwise or counter-clockwise.

Once the desired program type appears in the display, press the right knob in to activate the program type.

When a program type is active, turning the right knob only stops at the active program type. If only 1 program of that type is available, turning the knob does not change the display. If no PTY is available for the station, the time appears on the display.

During scan or manual tuning when PTY is active, the radio only stops at stations of the chosen type.

Switch RDS Text On/Off

Broadcasters can transmit short messages to receivers using RDS. For example, the name of the current program the title of the song or a phone-in number.

You must be listening to an FM station to activate RDS text. Then press the **OPT** button followed by the **Txt** multifunction key.

When radio text is turned on, the radio interprets information from the data transmitted by the station and displays it in the form of radio text.

Radio text cannot be displayed unless the selected station transmits radio text. If the station does not transmit radio text, the display shows "Waiting for Radiotext..." Press the the **RAD** button to stop radio text from appearing on the display.
Unfavorable reception conditions, including interference, can garble or even block a radio text display.

⚠ Warning - Danger of Accident.

DO NOT READ RADIO TEXT WHILE DRIVING!
Please read the radio text only while the vehicle is parked. Radio text contents change constantly and may distract the driver.

OPT + TP: Set up Traffic Program

If an RDS station transmits Traffic Program announcements, it is possible to have CD, CDC and AM operation interrupted so that the transmitted TP announcements can be played. It is also possible to listen to one FM station while receiving TP announcements from another FM station.

There are two ways to select a TP transmitter:

- automatic tracking
- direct programming

Automatic Tracking

Automatic tracking always uses the current FM station as TP transmitter. If the selected FM station has poor signal quality or cannot function as a TP transmitter, the radio searches for a new TP transmitter.

Direct Programming

Direct programming makes it possible to have a TP transmitter different from the current FM station. For example, one FM station and TP announcements transmitted by another FM station can be received simultaneously.

If an RDS station is equipped with traffic programming, this is indicated by the TP icon in the display.

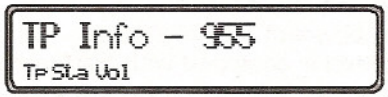
An inverted TP icon on the display indicates that TP is active.

Your radio plays traffic announcements as they are broadcast from time-to-time from a TP radio station. Without the TP icon appearing in the display, no traffic announcements are available to you.

If reception from the programmed TP transmitter is poor, the unit switches to automatic tracking until the programmed TP transmitter can receive.

Activating/Quitting the TP Menu

While listening to an FM RDS station (not during a traffic announcement), press the **OPT** hardkey followed by the **TP** multifunction key. The Traffic Program set-up menu appears as shown below.



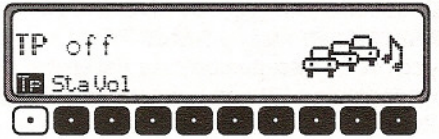
The TP menu automatically terminates unless one of these multifunction keys is pressed within 8 seconds:

- **Tp**: activating/quitting the TP menu
- **Sta:** select/deselect direct TP station programming
- **Vol:** TP announcement volume

An alternate method to exit the TP menu is to press any multifunction key or **CLK**, **AUD**, **OPT**, **CD**, **RAD** or **NAV** button.

Tp: Switch Traffic Program On/Off

The display reports whether TP is currently on or off.



To activate automatic TP tracking in the TP menu, press the **Tp** multifunction key repeatedly until **Tp on** appears in the display.

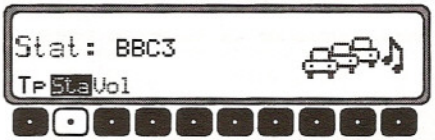
When the normal audio display appears, the TP icon appears in the display.

Setting Automatic TP Tracking

A shortcut to activate TP tracking in all modes and wavebands can be activated by pressing the **Tp** multifunction key until you hear a confirmation beep, about 2 seconds.

Sta: Selecting/Deselecting Direct Programming

Activate the TP menu by first pressing the **OPT** hardkey, then press the **Tp** multifunction key.



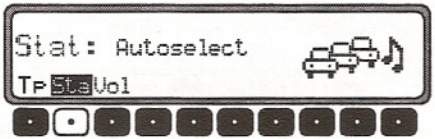
Select Direct Programming: Press the **Sta** multifunction key. Turn the right knob until the desired TP station appears in the display. The selected station is accepted after a short delay.

Exit the TP menu by either:

- timeout
- press the **Tp** multifunction key
- pressing any multifunction key or **CLK**, **AUD**, **OPT**, **CD**, **RAD** or **NAV** buttons

Deleting Direct Programming

Activate the TP menu by first pressing the **OPT** hardkey, then press the **Tp** multifunction key. Then turn the right knob until **Autoselect** appears in the display.



Push the right knob **in** to confirm. Direct programming is deleted after a short delay.

Exit the TP menu by either:

- timeout
- press the **Tp** multifunction key
- pressing any hardkey: CD, CDC, AM, etc.

Deactivating the TP

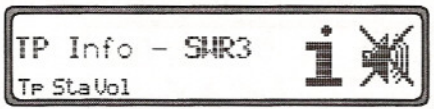
In all modes and wavebands, TP can be turned on or off by pressing the **Tp** multikey for more than 2 seconds. The display changes from TP the inverse symbol to TP .

To deactivate TP in the TP menu, press the **Tp** multifunction key repeatedly until **TP off** appears.

When the normal audio display appears, you may still see the TP icon if the current station has a TP transmitter. When TP is off, the inverted TP icon TP disappears from the display.

Switching Mute On/Off

After selecting a TP transmitter, the mute function can be activated by briefly pressing the **OPT** hardkey followed by the **Tp** multifunction key.



Thereafter, only traffic announcements and navigation announcements are audible through the vehicle speakers.

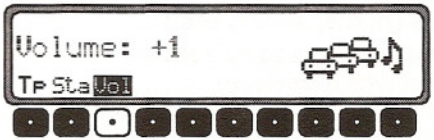
The mute function is cancelled by pressing the TP button again.

Interrupting TP Announcements

Press the TP button during an announcement. The current announcement is interrupted and the system automatically returns to the previous mode.

Vol: TP Announcement Volume

Press the TP button to select the TP menu. Press the **Vol** multifunction key to program the traffic announce volume.



Use the right knob to select a setting from 0 - 3. This means that the volume can be raised to a fixed value according to the setting.

- Setting 0: No increase
- Setting 1: Slight increase
- Setting 2: Medium increase
- Setting 3: Strong increase

⚠ Warning - Danger of Accident.

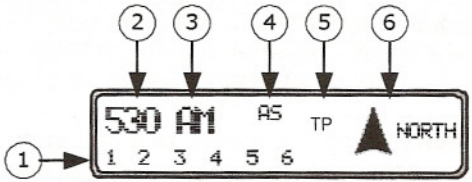
Too high a volume can be dangerous.
Adjust the volume to a level that allows you to still hear traffic noises (horns, sirens, etc.)

SELECTING THE AM BAND

Press the **RAD** button at any time to listen to the radio. The radio tunes to the last AM/FM band and station played. The display shows the station frequency, band and time-of-day.

While listening to any radio station, press the **RAD** button again to switch between the FM and AM bands. The display confirms that the AM band is active by displaying **AM.**

THE AM DISPLAY



1. 12 AM presets during manual tuning, 6 AM presets during AM autostore
2. station frequency
3. band is AM
4. AS indicator appears only while AM autostore is on
5. TP indicator appears if the RDS transmitter is equipped with a traffic program. An inverted TP icon appears on the display when the traffic program is active.
6. compass appears when navigation is not active; while navigation is active, turn-by-turn information is shown in this area

CHANNEL SELECTION FOR AM RADIO

The desired station can be selected through seek, scan, storing/recalling preset stations, manual tuning and AM autostore.

Seek

Turn the right knob clockwise or counter-clockwise to tune to the next/previous receivable and identifiable AM station. If no station is found, the tuner remains at the current frequency.

Scan

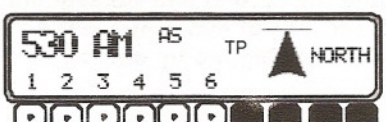
Push **in** the right knob to start an AM station search. The radio sweeps through the entire AM band. During the first pass, the radio plays 5 seconds of each **strong** station. During the second and subsequent passes, the radio plays 5 seconds of every **available** station. Scan continues until it is stopped by one of:

- right knob is pushed in again
- right knob is turned clockwise or counter-clockwise
- any C/C, AUD, OPT, etc. button is pressed
- any hardkey is pressed
- vehicle ignition is turned off.

Volume adjustments do not stop the scan. The scan icon SC flashes while the radio scans.

Storing an AM Station

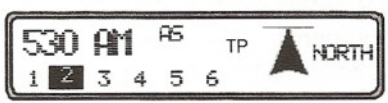
Up to 12 stations can be stored via manual tuning. To store the active AM station, press one of multifunction keys **1** through **6** or **7** through **12** until you hear the confirmation beep. Press the **->** multifunction key to access multifunction keys **7** through **12**.



Recalling an AM station

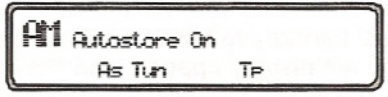
Press one of the multifunction keys **1** through **6** or **->** to access **7** through **12** for a brief moment. The radio tunes to the station associated with the multifunction key, and the station frequency appears in the display.

If the station playing is assigned to a multifunction key, the number above the multifunction key is inverted, as shown in multifunction key 2 in the diagram below.



OPTION BUTTON DURING AM

While listening to an AM station, press the **OPT** button immediately followed by a multifunction key to access the following additional features.



- **OPT + As:** the 6 best-received AM stations are stored under the multifunction keys in descending order of their reception quality
- **OPT + Tun:** turn on/off manual AM tuning
- **OPT + Tp:** access Traffic Program set-up

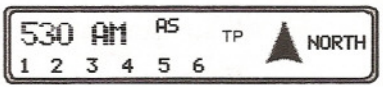
OPT + As: AM Autostore

Press the **OPT** hardkey following by the **As** multifunction key. The current AM autostore status is displayed.

Repeatedly press the **As** multifunction key until the display shows **AM Autostore on** or **off**, as you choose.

Press the As multifunction key for longer than 3 seconds to begin AM autostore. The six best AM stations are stored. Use multifunction keys 1 through 6 to access.

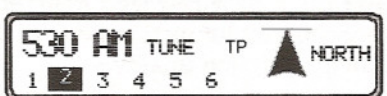
When AM autostore is on, **AS** appears in the display.



NOTE: The radio does not allow you to manually store stations while autostore is turned on.

OPT + Tun: Manual AM Tuning

Press the **OPT** hardkey followed by the **TUN** multifunction key. The AM display appears and the TUNE icon replaces the clock.



Turn the right knob clockwise or counter-clockwise to tune up or down in the AM band in steps of 10 kHz. If the right knob is not turned within a short time, TUNE disappears from the display and manual tuning is turned off.

3

CD OPERATION

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CD OPERATION

⚠ Warning -

Danger of accident

- to the eyes caused by invisible laser rays when the unit cover is opened or damaged
- Do not remove the unit covers and do not use the unit if the covers are damaged.
- The CD laser optics are a Class 1 laser product.

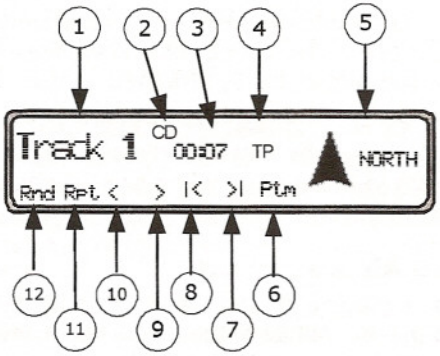
There are no user-serviceable components in the unit. For safety, any maintenance work must be performed exclusively by qualified service personnel.

INSTRUCTIONS FOR COMPACT DISCS (CDs)

Sound interruptions may occur if the CD is dirty. To ensure the highest sound quality, please do the following:

- Handle the CD only by the edges. Keep the disc clean and never touch the playing surface.
- Protect the CD from direct sunlight and heat sources such as heaters, etc.
- Before playing a CD, clean it with a special commercially available CD cleaning cloth, wiping from the center outward. Solvents such as petrol, thinners or other commercially available cleaners and anti-static sprays must not be used.
- Never insert anything into the CD player except CDs.

THE CD DISPLAY



1. track number
2. CD icon appears when a single CD is the active audio source; CDC indicator appears when the CD changer is the active audio source
3. either track elapsed time or time-of-day
4. Traffic Program indicator or scan indicator
5. compass appears when navigation is not active; while navigation is active, turn-by-turn information is shown in this area
6. choose whether track elapsed time (Ptm) or time-of-day (Clk) appears on the display
7. next track
8. previous track
9. fast forward in current track
10. fast reverse in current track
11. repeat current track
12. play tracks in random order

INSERTING AND EJECTING CDs

Inserting a CD

Insert the disc into the CD slot with the printed side facing up. The unit pulls in the CD and starts playing the first track. A CD can be loaded even when the unit is turned off.

If a nonmusic CD is loaded into the CD player, a **CD ROM** message appears briefly in the display, and then the previous audio mode resumes. The nonmusic CD remains in the player until the eject button is pressed. The CD player is not harmed by this.

Ejecting a CD

Press and hold the ⏏ button to eject a CD. The unit partially rejects the CD and waits for the CD to be manually removed. The previous audio mode resumes. The CD player pulls the CD back into the player if the partially ejected CD is not manually removed within 20 seconds. The unit continues in its previous audio mode. The eject button is recognized both when the unit is on and off.

SWITCHING BETWEEN SINGLE CD AND OPTIONAL CD CHANGER

Press the CD hardkey to switch between single CD and CD changer play. The CD hardkey is ignored if no CD is present in the player being switched to (i.e., single CD or CD changer). The CD icon appears in the display when single CD is the active audio source. The CDC icon appears in the display when the CD changer is the active audio source.

PLAYING AN AUDIO CD

A CD begins playing as soon as a CD is loaded into the single CD player. While listening to AM or FM radio, press the CD hardkey when a CD is present to begin playing a CD.

The CD icon appears in the display while CD is the active audio source.

The Clk/Ptm multifunction key determines whether the track elapsed play time or time-of-day is displayed.

When the last track of the CD finishes playing, the CD starts playing again from the first track. The unit displays elapsed time for 10 seconds and then restores the time-of-day, unless elapsed time is the selected time mode when new tracks start.

If a CD is playing when vehicle ignition is turned off (such as for refueling), play resumes where it left off once the vehicle is restarted. The unit recognizes when the CD changes; it starts playing from the beginning of the first track if a different CD is inserted while vehicle ignition is off.

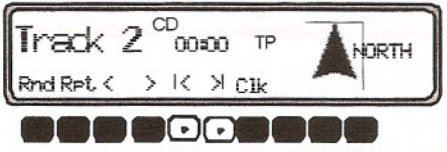
If the **CD** hardkey is pressed when no CD is loaded, a **NO CD** message appears briefly on the display.

The CD remains in the player when vehicle ignition is turned off.

Next/Previous Track

Press the skip forward >| or skip backward <| multi-function key to play the next/previous track. By pressing one of these keys repeatedly, several tracks can be skipped over in forward or reverse directions.

An alternate method is to turn the right knob clockwise or counter-clockwise.

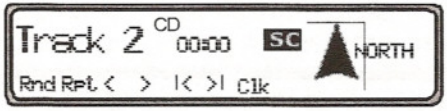


Once the last track has been reached in the forward direction, the unit switches back to the first track. If the first track has been reached in the backward direction, the unit switches from the first track to the last track.

If a track has been playing for less than 8 seconds when the backward skip button is pressed, the unit skips back to the beginning of the current track.

Scan Search

Press the right knob in to start SCAN operation. The SC icon appears in the display while scan is active.

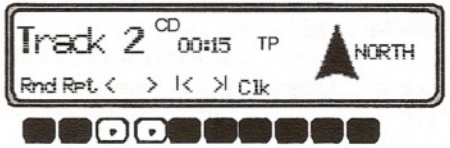


The first 8 seconds of every track plays. Stop the scan by one of:

- push the right knob **in** again
- press any hardkey (e.g., C/C, AUD, etc.
- turn the right knob

Fast Forward/Fast Reverse

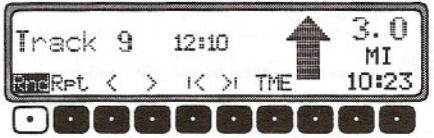
Press the **>** multifunction key to fast-forward within the current track. Press the **<** multifunction key to fast-reverse within the current track. Fast-forward and fast-reverse continue as long as the multifunction key is held. The audio continues to be heard during fast forward/fast reverse.



Release the multifunction key to stop the fast forward/ fast reverse.

Random Play

Press the **Rnd** multifunction key to play the tracks on the same CD in random order. The multifunction key label Rnd is displayed inverted Rnd when random play is active.

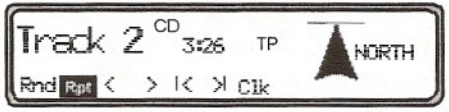


No track repeats until all tracks have played once.

Stop the random play function by pressing the **Rnd** multifunction key again.

Track Repeat

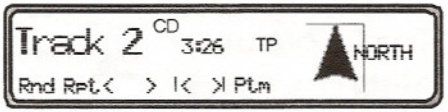
Activate the track repeat function by pressing the **Rpt** multifunction key. The track currently playing is repeated as long as this mode is active. The multifunction key label Rpt displays inverted when repeat mode is active.



Press the **Rpt** multifunction key again to stop track repeat mode.

Time Mode Selection

The 7th multifunction key switches between **Ptm** and **Clk**. Press the **Ptm** (play time) multifunction key to see track elapsed time. Press the Clk multifunction key to see time-of-day. Elapsed time appears for 10 seconds any time the CD track changes.

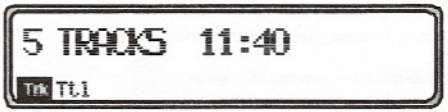


Temperature Protection Circuit

The unit is equipped with a temperature protection circuit to protect the laser diode from excessive heat. Temp appears for 8 seconds and the unit switches back to the radio or other audio source upon activation of the temperature protection circuit.
Single CD and CD changer can be used again after a cool-down period. The unit returns to radio or another audio source if the temperature is still too high.

OPT BUTTON DURING SINGLE CD MODE

The following display appears when the **OPTION** hard-key is pressed while playing an audio CD:

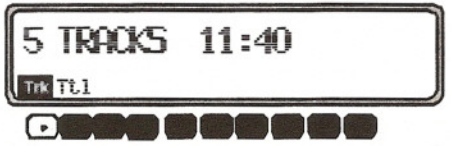


OPT + Trk: information up to current place on the CD

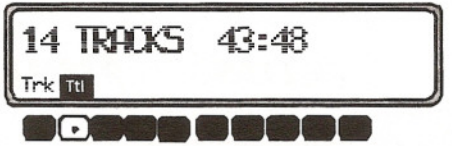
OPT + Ttl: information about the whole CD

OPT + Trk: display number of tracks played to this point on the CD, and display total time played since the start of the CD

The normal CD display returns after a few seconds.



OPT + Ttl: display total number of tracks on this CD, and total time of all tracks on the CD



The normal CD display returns after a few seconds.

CD CHANGER OPERATION

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CD CHANGER OPERATION

If a CD changer is connected to the car radio, it is ready for operation when loaded with a CD magazine containing at least 1 CD. Close the sliding tray after loading the magazine to protect the system from dust. Further operation is performed using the front panel controls.

Loading/Ejecting the CD Magazine
To remove the CD magazine, open the sliding cover on the changer and press the eject button on the changer. The magazine is ejected and can be removed.

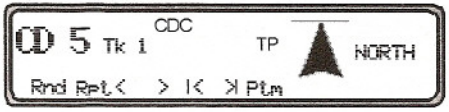
When inserting CDs in the magazine, note the arrow imprint on the magazine so you insert the CDs correctly.

To allow for the fastest possible change of CDs, CDs should be loaded in consecutive slots in the magazine, beginning with tray 1.

NOTE: Incorrectly inserted CDs are not played. The display shows "Bad CD #" to indicate which CD is not working properly.

Playing CDs
Press the **CD** hardkey to switch between single CD and CD changer operation. The CD Changer menu is active if CD Changer was previously active or if there is no audio CD in the single CD player.

The last CD played resumes from its last position before the unit was switched off. The display shows **Loading CD X** while the CD is loading. The display shows the magazine compartment number or the name assigned to the CD using the **OPTION** hardkey. The right knob selects discs loaded in the magazine.



If no CD is loaded in a selected magazine tray, the next CD # appears on the display and the next CD tray loads.

The next CD automatically plays after the last track of a CD has finished playing. The CD changer cycles back to the first CD in the magazine after the last track of the last CD in the magazine has played.

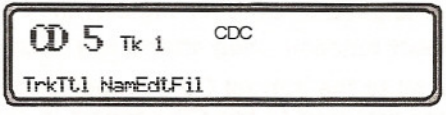
Refer to the CD instructions earlier in this section for complete CD player operation instructions.

NOTE: The CD function Rpt is not available when using the CD changer.

The radio displays "Mech. Err." if a mechanical problem is detected. Check the CD magazine to make sure it is properly loaded. If the problem persists, the CD changer may require service.

OPT BUTTON DURING CD CHANGER MODE

The following display appears when the **OPT** hardkey is pressed while the CD Changer is playing.

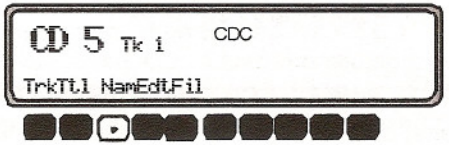


OPT + Nam: display CD name instead of track number

OPT + Edt: enter a name or change an existing name

OPT + Fil: switch track filter on/off

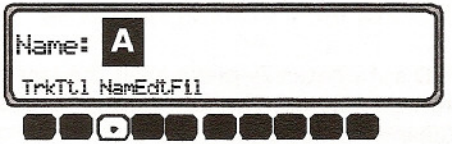
OPT + Nam: display CD name instead of track number



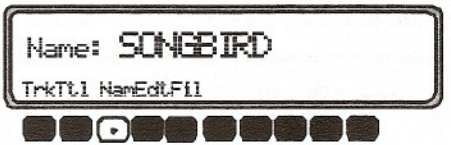
If you have assigned a name for the current CD using the **OPT + Edt** function, then after a few seconds, the display returns to the normal CD Changer display, and the name you assigned to the CD appears in the display instead of the CD disc number.

To delete an existing name, press the Nam multifunction key. Turn the right knob to select which name to delete. Push **in** the right knob to delete the displayed name.

OPT + Edt: enter name or change existing name

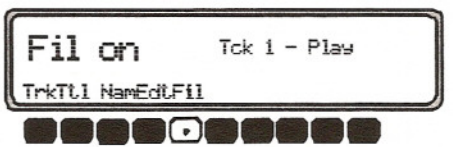


Spell the name you want to give to the CD using the right knob. Turn the knob clockwise or counter-clockwise until you see the letter you want in the display. Press **in** the knob to confirm your chosen letter. A maximum of 8 letters can be entered. After several seconds without touching the right knob, the name is saved and the CD Changer OPTIONS menu disappears.



OPT + Fil: Switch Track Filter On/Off

The individual titles of the current CD can be selected using the right knob. It is then possible to select between Play (track not filtered) and Skip (track filter out) by pressing the right knob.



To switch the filter function on or off, repeatedly press the Fil multifunction key until you see that the filter is on or off, as you choose.

Note: The filter function can only be activated when the selected CD is named.

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NAVIGATION

Note: The compass (accessed by pressing the **AUD** button for more than 2 seconds) always points north, but the arrow when navigation is active always points to the destination.

WHAT IS NAVIGATION?

The GPS antenna receives latitude and longitude signals from GPS satellites orbiting the earth. These signals give the navigation system an indication of the vehicle location. Vehicle movement is measured by an electronic signal related to the vehicle speed. A built-in gyro sensor measures the vehicle rate of change of steering angle. The navigation system uses all of these signals to determine the current vehicle position relative to the digitized map stored on the navigation CDs.

The navigation system then determines the route to the selected destination and provides instructions as the vehicle moves toward the destination. For safety reasons, route guidance is predominantly in spoken form, supported by a direction indicator on the display.

SAFETY INSTRUCTIONS

- To avoide an accident, enter navigation instructions only while the vehicle is stopped.
- Observation of traffic signs and local traffic regulations must always take priority.
- Traffic guidance is restricted to passenger vehicles. Special driving recommendations and regulations for other vehicles, such as commercial vehicles, are not included.

GPS Notes:

1. If the GPS antenna is located on the dashboard, items placed on the dashboard could interfere with the Global Positioning System.
2. Electronic equipment such as laptops, video games, cellphones, etc. can interfere with the GPS.

Navigation CDs

The navigation unit is provided with two navigation CDs. One CD contains data for the western half of the USA and some of the major cities in Hawaii and Canada (Western USA Navigation CD) and the other CD contains data for the eastern half of the USA and some of the major cities in Canada (Eastern USA Navigation CD). Data for North Dakota, South Dakota, Nebraska, Kansas, Oklahoma and Texas are contained on both CDs to allow for an uninterrupted crossing between the two regions.
The navigation CDs contain digitized street maps. Highways, state and county roads, as well as local streets, are detailed in this map. Many of the streets have the ability to route to individual house numbers and addresses. Larger cities and communities are covered. Regional and unclassified roads or through-roads and town centers are included for smaller towns and communities. The CDs also contain P.O.I.s (Points of Interests) which include gas stations, airports, restaurants, hospitals, etc.

One-way streets, pedestrian zones, no-turn intersections and other traffic regulations are covered where possible. There may be discrepancies between the data on the navigation CDs and the actual local situation, due to continuous changes to the road systems and traffic regulations. You must follow the posted regulations even if they contradict the navigation announcements in all cases.

GENERAL INFORMATION

In navigation mode, the radio, CD and optional CD changer continue.

The distance to the next directional announcement and estimated time of arrival will be shown on the right side of the display.

Press the **RAD** button to select radio mode once route guidance is active. Press the **CD** button repeatedly to toggle between CD and CD changer audio mode once route guidance is active.

The route guidance display is automatically shown when directional announcements are given.

Use the smart speller and the right knob to enter addresses. The display shows only those letters, numbers and symbols that can be used to make a valid address. Entries are automatically completed. An empty space between words such as in New York, must be entered with an underscore (_).

The multifunction keys **1** through **10** may also be used to select letters, numbers and symbols. Select individual symbols by pressing the appropriate multifunction keys under the desired symbol repeatedly until that symbol appears on the display.

Press the NAV button to quit the current menu and return to the previous menu.

The system recalculates a route if a change is made.

Repeat the current navigation announcement by pressing the left knob.

Adjust the navigation announcement volume by turning the left knob during a navigation announcement.

Adjust the tone settings by pressing the AUD button during the announcement.

Press the left knob to request additional information during route guidance, or the current position when route guidance is not active. If the right knob is pressed during route guidance, WAY ROUTE is displayed.

Press the left knob to interrupt the current navigation announcement.

Turn off announcements by pressing the left knob for more than 2 seconds during a navigation announcement. Route guidance will only then be shown on the display. Turn the navigation announcements on by pressing the left knob again.

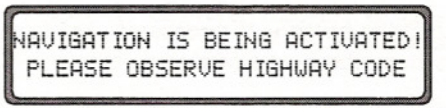
The scroll marks ▲ and ▼ indicate a selection list through which you can scroll by turning the right knob. Select the highlighted entry by pressing the right knob.

The confirmation beep will not be heard if the optional checkmark ✓ is used, when available, to confirm selection.
The navigation unit prompts you to insert the navigation CD as needed, such as when programming destinations, when deviating significantly from a programmed route, etc. Please insert the navigation CD to maintain proper route guidance when prompted.

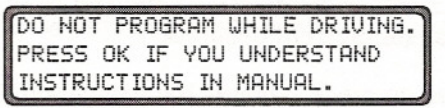
You can replace the navigation CD with an audio CD once the route information is loaded. The CD indicator on the display will disappear from the display when the route information has been loaded..

CONFIRM WARNING

A warning message will appear each time you turn your radio on after selecting navigation operation. This message indicates that the navigation system is still initializing.



The above message goes away after a short time and is replaced by the warning message shown below. The message appears each time you select navigation after vehicle ignition has been turned on.



When you confirm the receipt of the warning, you state that you have read and understood this user guide and

that you are aware of the dangers associated with the use of this navigation equipment. The navigation system will not operate until this prompt is confirmed. Press the right knob to confirm the selection.

SELECTING NAVIGATION

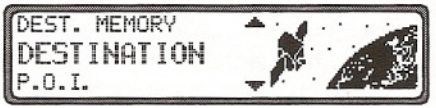
Press the NAV button. If necessary, confirm the warning as described previously.

Next, the main navigation menu appears.

NOTE: When starting navigation mode for the first time, you must load the navigation CD. The system will prompt you to take a drive for calibration of the navigation system if calibration has not been completed. If this occurs, see System Calibration.

The navigation mode requires the navigation CD containing the data for the destination. CD will flash on the display during route calculation while transferring data from the CD to the navigation system. CD will disappear. Once the route calculation has been completed, you may remove the navigation CD and insert an audio CD.

MAIN NAVIGATION MENU



Select one of the following by turning the right knob and pressing it to confirm.

- **DESTINATION:** Enter a destination using data from the navigation CD.
- **DEST. MEMORY:** Select a destination from your list of saved destinations, up to 50.
- **P.O.I.:** Enter a destination from the Points of Interest information on the navigation CD. Points of

Interest include gas stations, airports, restaurants, hospitals, etc.

- **LAST DESTINATIONS:** Choose from a list of your last 20 destinations.

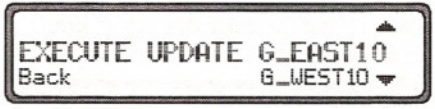
DESTINATION

Select DESTINATION from the main navigation menu by turning the right knob and pressing it to confirm.

The navigation data is stored on two CDs: Western USA and Eastern USA. In most cases, the starting and ending locations are contained on one of the two CDs.

When you enter your desired destination, the radio knows your current position and will tell you which CD to load. For example, if you are in Boston, Massachusetts and you are driving to Los Angeles, California, it is possible that the navigation radio will ask you to insert the west coast CD even though you are currently on the east coast.

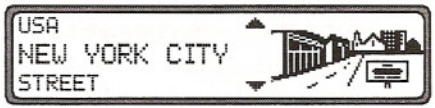
NOTE: The map information database is updated on a regular basis. When you use new navigation CDs with updated map information, you may see a display similar to this:



Select EXECUTE UPDATE by pressing the right knob. The system will check the radio and navigation software and will load all data required for navigation. When switching CDs, the ignition should be on and the vehicle should be parked. After a short time, the system will restart the navigation software and you will need to confirm the warning message again.

NOTE: You can not use last destination or destination memory locations which were stored with the Eastern USA Navigation CD while using the Western USA Navigation CD and vice versa.

Entering a Country for the Destination



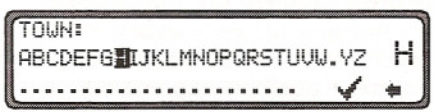
Select the country by turning the right knob and pressing it in to confirm.

To change countries, turn the right knob and press it in to confirm.

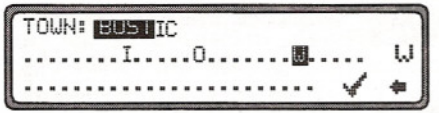
NOTE: The default is USA. It is necessary to change the country only when traveling from the USA to Canada or from Canada to USA. A route between Hawaii and the USA is not possible. Hawaii can only be selected if your vehicle is located in Hawaii.

Entering a Town for the Destination

Select the highlighted town by pressing the right knob to enter a new destination town. Select STREET or CENTER by turning the right knob to select a street or center of town, within the highlighted town, and pressing it to confirm.



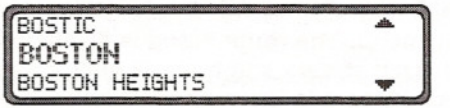
Enter the name of the town highlighting the letters one by one, by turning the right knob and pressing it to confirm. The selected letter will appear enlarged on the right side of the display and will be added to the highlighted town name on the top row of the display.



The display shows the name of the location most similar to the letters entered to speed up selection. It will show only letters for the selection that make sense in completing the location name. The unit completes the location name automatically if all other possibilities are eliminated.

Delete the last confirmed letter by pressing the ← multifunction key. Delete the complete entry by pressing and holding the ← multifunction key until the confirmation beep is heard.

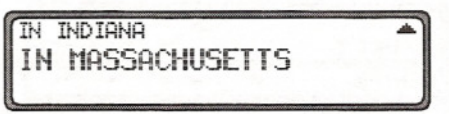
Accept the entry by pressing and holding the right knob until the confirmation beep is heard. You may also select the checkmark ✓ by turning the right knob and pressing it to confirm. The town list will be displayed if the entry is not complete when the right knob is pressed.



Select the desired town by turning the right knob and pressing it to confirm.

You can also enter counties. This is sometimes necessary to find a road name.

The state list is displayed if the selected town exists in more than one state.



Select the state where the desired town is located by turning the right knob and pressing it to confirm.

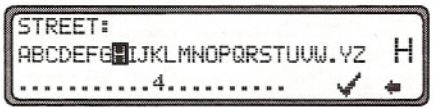
The unit will then display the street entry menu or the city center menu. The route menu is displayed if there are no digitized streets and there is only a single town center that appears in the map.

The town list includes towns, cities and counties. The state list includes states and counties if a town name is used more than once in a state.

Entering a Street for the Destination

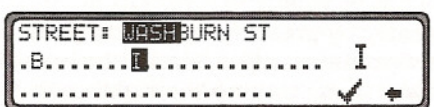
NOTE: Enter the street name first before entering a geographic designator (N, S, etc.). For example, E. Carson St. would be entered as CARSON ST E.

Select STREET by pressing the right knob.



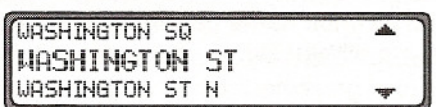
Select the letters one by one by turning the right knob and pressing it to confirm. The selected letter will appear enlarged on the right side of the display and will be added to the highlighted street name on the top row of the display.

Delete the last confirmed letter by pressing the ← multifunction key. Delete the complete entry by pressing and holding the ← multifunction key until the confirmation beep is heard.



The display will show the name of the location most similar to the letters entered to speed up selection. It will show only letters for the selection that will make sense in completing the location name. The unit will complete the location name automatically if all other possibilities are eliminated.

Accept the entry by pressing and holding the right knob until the confirmation beep is heard. You may also select the checkmark ✔ by turning the right knob and pressing it to confirm. The street list will be displayed if the entry is not complete when the confirmation is accepted.



Select the desired street by turning the right knob and pressing it to confirm. If the entry is unique, the unit will switch to the route menu.

If the entry is unclear, the street distinguishing list is shown.

Select the desired region around the street by turning the right knob and pressing it to confirm. The unit will switch to the route menu.

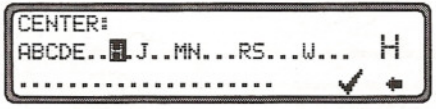
Entering a Town/City/County Center for the Destination

Select CENTER by turning the right knob and pressing it to confirm.

The unit will switch to the route menu if the place you chose only has one center. The center list will be displayed if there are fewer than 10 centers.

Select the center name by turning the right knob and pressing it to confirm.

The unit will switch to center entry mode if there are more than 9 centers.



Select the letters one by one by turning the right knob and pressing it to confirm. The selected letter will appear enlarged on the right side of the display and will be added to the highlighted center name on the top row of the display.

Press the ← multifunction key to delete the last confirmed letter. Delete the complete entry by pressing and holding the ← multifunction key until the confirmation beep is heard.

The display will show the name of the center most similar to the letters entered to speed up selection.

It will show only letters for the selection that make sense in completing the location name. The unit will complete the location name automatically if all other possibilities are eliminated.

Accept the entry by pressing and holding the right knob until the confirmation beep is heard. You may also select the checkmark ✓ by turning the right knob and pressing it to confirm. The center list will be displayed if the entry is not complete when the confirmation is accepted.

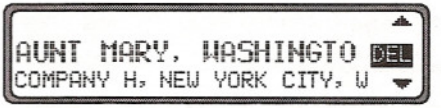
Select the desired town center by turning the right knob and pressing it to confirm. If the entry is unique, the unit will switch to the route menu.

DESTINATION MEMORY

Store your favorite restaurant here in this long term memory; it will stay there until you delete it. The navigation radio can store up to 20 selections which can be used either as destinations or as stopovers.

Select DEST. MEMORY from the main navigation menu by turning the right knob and pressing it to confirm.

Select the desired destination by turning the right knob and pressing it to confirm.

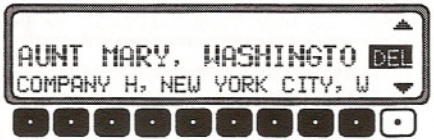


Once the destination is selected, route guidance can start as described in this user guide.

If the navigation radio is new and no past destinations have been stored, the Dest. Memory choice is not displayed. Refer to Saving A Destination later in this chapter for instructions to save a destination in destination memory.

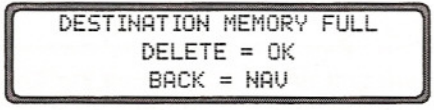
Deleting a Destination from the Destination Memory

Select destination memory as described previously.



Select the destination to be deleted by turning the right knob and pressing the DEL multifunction key.

Destination Memory Full



This message will appear when trying to save data and the destination memory is full.

Select the destination memory to delete a destination by selecting either DELETE by pressing the right knob or BACK by pressing the NAV button to cancel saving.

LAST DESTINATIONS

This is short term FIFO memory managed by the navigation radio. It will store your previous 20 destinations. Use Destination Memory instead if you want to always remember a destination.

Select LAST DESTINATIONS from the main navigation menu with the right knob. Turn the right knob to scroll through the last destinations.

Destination information is available if you press the left knob before you confirm your selection with the right knob.

NOTE: Stopovers are not stored as last destinations.

Deleting a Destination from Last Destination Memory

To delete 1 entry in the last destination memory list, highlight the destination to be deleted and then quickly press the **Del** multifunction key.

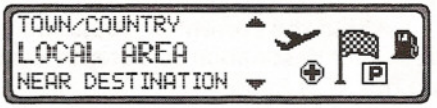
To delete all entries in the last destination memory list, press and hold the DEL multifunction key until the confirmation sound is heard.

P.O.I. (POINTS OF INTEREST)

Select P.O.I. from the main navigation menu or the stopover selection menu by turning the right knob and pressing it to confirm.

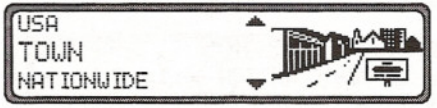
P.O.I.s include gas stations, airports, hospitals, restaurants, etc. P.O.I.s are stored on the navigation CD. P.O.I.s can be displayed based on the geographic region you select as shown below.

Select the geographic region by turning the right knob



and pressing it to confirm.

- LOCAL AREA: selects P.O.I.s around the current location
- NEAR DESTINATION: selects P.O.I.s for stopovers near the selected destination.

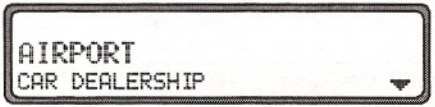


Select TOWN/COUNTRY as a region by turning the right knob and pressing it to confirm.

- COUNTRY: selects the country for your destination
- TOWN: selects the P.O.I.s in the selected town and country
- NATIONWIDE: selects P.O.I.s around the entire navigation CD

P.O.I. - Local Area or Near Destination

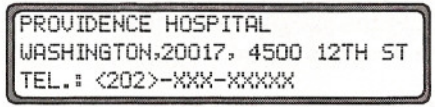
Select P.O.I.s within the current surroundings of the vehicle or near your destination as a stopover by turning and pressing the right knob.



A maximum of 20 destinations are listed according to proximity. The straight-line distance from the current location to the P.O.I. will be shown for each entry. The arrows following the distance information indicate the direction to the respective point of interest (e.g. ↑ P.O.I. lies in the direction of travel, or ↓ P.O.I. lies in the opposite direction).

Select the desired P.O.I. with the right knob and press it to confirm.

Destination information is available if you press the left knob before you confirm your selection with the right knob.



Confirm selection with the right knob to select the route menu.

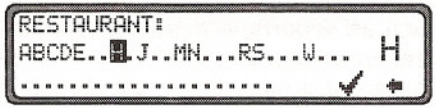
P.O.I. - Town/City/County

You may select a P.O.I. from any location on the navigation CD. Select TOWN by turning the right knob and pressing it to confirm.

Enter the town name by turning the right knob and pressing to confirm each letter.

As before, you can press and hold the right knob prior to finishing spelling the name to select the town/city/county name from a list. Once the spelling or selection is complete, press the right knob to confirm.
Follow the instructions listed under P.O.I. - Local Area Near Destination for the local area as described previously. In this case, only those P.O.I.s in the specified town will be displayed.
NOTE: If you select RESTAURANT, another menu appears when you press the right knob. This feature is only available when choosing P.O.I. by TOWN.

If you select BY NAME, all available restaurants in the specified area will be displayed in a list. If there are more than 9 items in the list, you will be prompted to start spelling the restaurant name (similar to entering a town or street name.



Enter the restaurant name using the right knob and pressing it to confirm.

NOTE: A list of possible P.O.I.s will display when you press the right knob until the confirmation beep is heard, without having selected any letters.

If you select BY FOOD TYPE, turn the right knob to select and press it to confirm which food type you desire.

Once confirmed, the navigation unit will list restaurants in the selected category.

P.O.I. - Nationwide

Special P.O.I. categories are shown for nationwide selection, such as airports, amusement parks, highway access, ski resort or tourist sites.

Follow the instructions listed under P.O.I. - Local Area Near Destination for the local area as described previously. Only the nationwide P.O.I.s on the navigation CD in use will be displayed.

Turn the right knob to select a category and press it to confirm.

ROUTE MENU

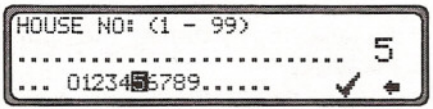
Select one of the following to select a route and preferences for route guidance by turning the right knob and pressing it to confirm.

- HOUSE NO.
- INTERSECTION
- ROUTE SETTINGS
- SAVE DESTINATION
- START-FAST R. or START-SHORT R.

For more information on these features, refer to them next in this section.

Entering a House Number

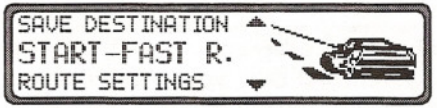
Select HOUSE NO: in the route menu with the right knob and press it to confirm.



Enter the house number one number at a time by turning the right knob and pressing it to confirm. The selected number will appear enlarged on the right side of the display and will be added to the highlighted number on the top row of the display.

To delete the last confirmed letter, press the ← multifunction key. Delete the complete entry by pressing and holding the ← multifunction key for more than 2 seconds until the confirmation beep is heard.

House number selection is available only in the range specified in parenthesis (1-99 in the example above). You will be prompted to re-enter the number if it is not on the digital map. If the address is not available, or you can not enter a nearby address, select a nearby intersection to get close to your destination.
You can start route guidance once the right knob has been pressed.



Select one of the following by turning the right knob and pressing it to confirm.

- SAVE DESTINATION: Store the entered destination by a name of your choice (or no name). The selection is saved in the destination memory when you confirm the selection.
- ROUTE SETTINGS: Modify the route type when you confirm this selection.
- START-FAST R.or START-SHORT R.: Activate route guidance to the entered destination with consideration of the route settings when you confirm this selection.

For more information on these features, refer to them in this section.

Selecting an Intersection

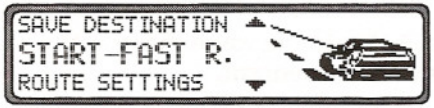
If the house number is not available on the digitized map, you may enter a nearby intersection for guidance.

NOTE: If you do not enter an intersection, the navigation system will take you to the nearest entry point on the selected road.

Select INTERSECTION in the route menu with the right knob and press it to confirm.

Select the intersecting street by turning the right knob and pressing it to confirm.

Only the streets that intersect the entered destination will appear in the list.
You can start route guidance once the right knob has been pressed.



Select one of the following by turning the right knob and pressing it to confirm.

- START-FAST R. or START-SHORT R.: Activate route guidance to the entered destination with consideration of the route settings when you confirm this selection.
- SAVE DESTINATION: Store the entered destination by a name of your choice (or no name). The selection is saved in the destination memory when you confirm the selection.
- ROUTE SETTINGS: Modify the route type when you confirm this selection.
- For more information on these features, refer to them in this section.

Selecting the Route Settings

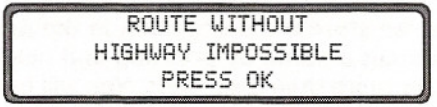
Select ROUTE SETTINGS in the route menu with the right knob and press it to confirm selection.

- FAST ROUTE: Select FAST ROUTE using the right knob to obtain the shortest possible time to your destination.
- SHORT ROUTE: Select SHORT ROUTE using the right knob to obtain the shortest possible distance to your destination.
  NOTE: SHORT ROUTE is preferred for short distances in metropolitan areas.
- RESTRICTIONS: Select RESTRICTIONS using the right knob to modify the restrictions you want applied to your route including avoiding highways, ferries, or toll roads.

NOTE: These settings are stored in memory and won't change, even if the ignition is turned off and on.

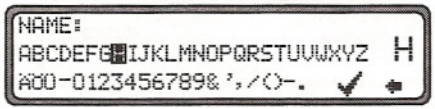
Select the item you wish to change by turning the right knob. Change the selection by pressing the right knob. Press the right knob until confirmation beep is heard to accept all the settings and quit the menu.

NOTE: It is possible that routes without the use of interstate highways may not be calculable. If this happens, you will receive a message.



Saving a Destination

Select SAVE DESTINATION in the route menu by turning the right knob and pressing it to confirm.



Enter any name of your choice consisting of up to 20 characters for the specified destination. The name and location are stored in the destination memory by pressing the right knob until the confirmation beep is heard.

The destination can also be stored by selecting the checkmark ✓ and pressing the right knob.

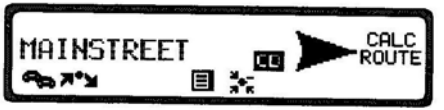
NOTE: You can store the destination in the destination memory without a name by pressing and holding the right knob for more than 2 seconds. You will hear a beep confirming your entry.

The last destination entered can be saved at any position in the destination memory by turning the right knob to select the desired location prior to confirming the selection. Confirm the memory position by pressing the right knob. The default location is at the beginning of the destination memory list.

A total of 20 destinations can be saved.

To complete storing a destination in destination memory, either start route guidance or enter a new destination by selecting NEW DESTINATION.

ROUTE GUIDANCE CALCULATION



The message CALC ROUTE will be displayed when route guidance is started. It indicates that the route is being calculated, which may take several seconds.
The **CD** indicator on the display will continue to blink until all the data required to generate the route has been loaded from the navigation CD.

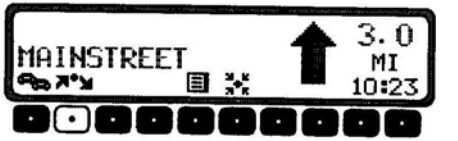
Recalculating Route

The navigation unit will re-calculate the route if the current route is not followed due to road blocks, diversions, unintentionally driving in the wrong direction or failing to observe the recommendations. NEW ROUTE is displayed while the unit is re-calculating the route.

STOPOVER

Stopover offers the possibility of programming a stopover destination during an active route guidance.

Entering a Stopover

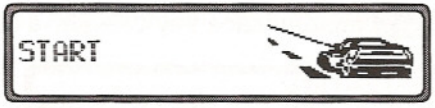


Press the multifunction key to enter a stopover.

Using the right knob, make a selection and press to confirm. The following selections can be used as a stopover:

- DESTINATION
- P.O.I.
- LAST DESTINATIONS
- DEST. MEMORY

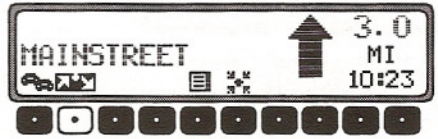
Starting Route Guidance to a Stopover



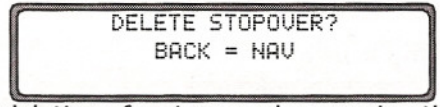
Start route guidance to the stopover by pressing the right knob. The route will be calculated and route guidance will begin.
The stopover will appear inverted in the display and the route will be recalculated once the selection is confirmed.

NOTE: Stopovers are not stored in the last destination memory.

Deleting a Stopover

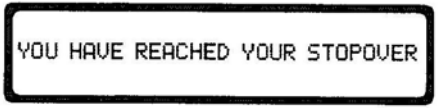


Press the multifunction key to delete a stopover.



Confirm deletion of a stopover by pressing the right knob within 8 seconds. The navigation system will then recalculate the route. You can exit this menu by pressing the NAV button.

Arriving at a Stopover

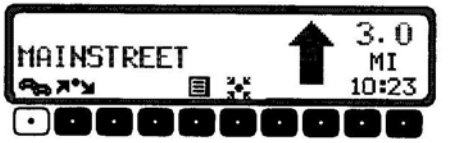


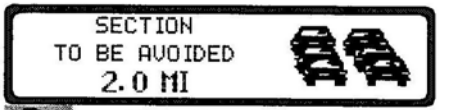
When you reach the stopover, the unit will announce and display YOU HAVE REACHED YOUR STOPOVER. Route guidance to the main destination is started automatically. Press the right knob to clear the display or simply let it time out. You may need to insert the navigation CD after the stopover is reached. In that case, you will be prompted to insert the navigation CD.

TRAFFIC JAM

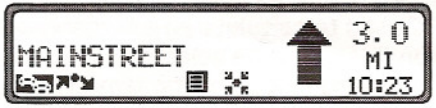
Traffic jam is used to calculate an alternate route when the traffic conditions on the selected route are not favorable for driving (e.g. a traffic jam or road block).

Entering the Length of a Traffic Jam



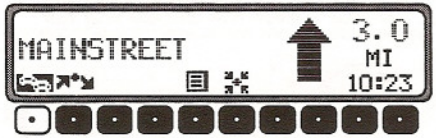


Press the multifunction key.Set the length of the section to be avoided by turning the right knob and pressing it to confirm. You can cancel this process by pressing the NAV button to abort the traffic jam function prior to confirming your selection.

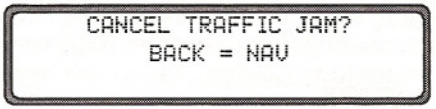


The traffic jam symbol will appear inverted in the display and the route is recalculated once the selection is confirmed.

Cancel Traffic Jam



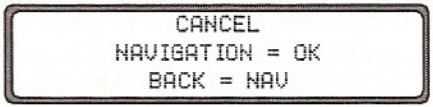
Press the multifunction key.



Cancel traffic jam by pressing the right knob within 8 seconds. The navigation system will then recalculate the route. As with other navigation menus, you can quit this action by pressing the NAV button.

CANCELING ROUTE GUIDANCE

Press the NAV button from the route guidance display.



Select either DELETE by pressing the right knob to cancel route guidance or BACK by pressing the NAV button to continue route guidance.

NOTES ON ROUTE GUIDANCE

After starting route guidance, the system calculates the route and announces: "We can start now." This may be followed by other messages such as "Please follow the arrows on the display" or "Please follow the road".

You will receive navigation recommendations by voice messages and screen displays. You can hear the last driving recommendation by pressing the left knob.

If the route to be traveled is not clear, such as at an intersection where a change in direction is not specified, the travel direction can be displayed by pressing the right knob.

Please follow the direction indicated by the arrow. The display appears for 8 seconds after pressing the right knob.

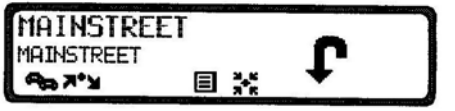
⚠ Warning -
Danger of Accident.

DO NOT IGNORE TRAFFIC LAWS.

If a driving recommendation contradicts the traffic laws, the laws ALWAYS take precedence!

For clarification, this section contains a selection of examples of possible driving recommendations:

- "Please make a U-turn if possible."



You are driving in the wrong direction and should turn around at the earliest opportunity.

- "Please turn right in 200 yards."

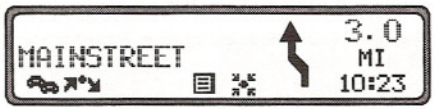
The arrow points in the direction you should turn. The progress bar on the right illustrates the distance. The dark area decreases as you approach the intersection.

- "Please follow the road."

You should continue driving on the current road for the distance shown.

- "Prepare to turn left" or "Move into left-hand lane."

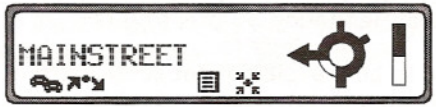
  NOTE: Keep left doesn't mean to use express lanes.



You should note that there is an upcoming turn and prepare to make any lane changes needed to safely make the turn. As always, road safety must be observed when making a lane change.

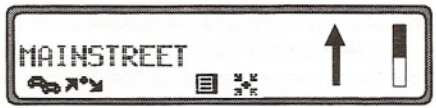
NOTE: At intersections and traffic circles, only the ends of the roads to be passed are displayed.

- "Please take the third turn on the right."



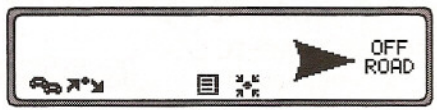
This arrow shows you which exit you should take from a traffic circle.

- "Now go straight."



This arrow indicates you should drive straight ahead.

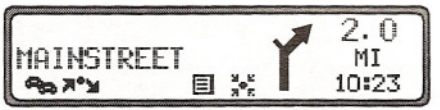
- "Please follow the arrows in the display."



This display tells you that you are currently in an

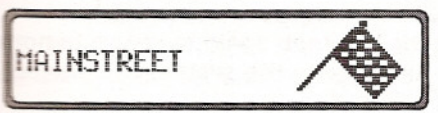
area, such as a parking lot, garage, etc., that is not on the digital street map. The arrow indicates the actual geographic direction of the destination. The arrow is not associated with the street map.

- "Keep right in 2 miles."



"Keep right" means that the street will fork and you should follow the indicated direction.

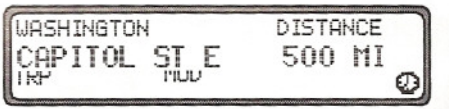
- "You have reached your destination."



The specified destination has been reached and route guidance is terminated.

INFORMATION DURING ROUTE GUIDANCE

Press the left knob during route guidance.

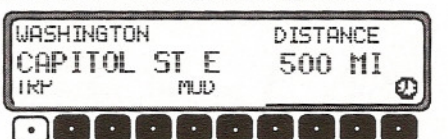


The system will repeat the the last announcement and will anounce estimated time of arrival. The display will show destination and distance.

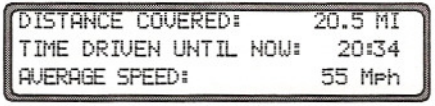
NOTE: You can switch the announcement on and off using the system settings menu.

Requesting Trip Duration and Miles Traveled

Press the left knob during route guidance.



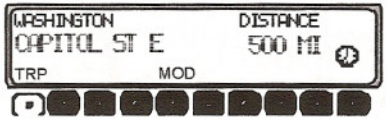
Select trip information by pressing the TRP multifunction key within 8 seconds.



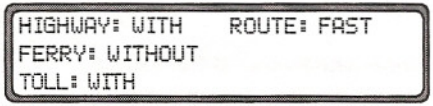
The trip duration, miles traveled and the average speed will be displayed. Press the right knob or the NAV button to return to the route guidance display.

Displaying Route Settings

Press the left knob during route guidance.



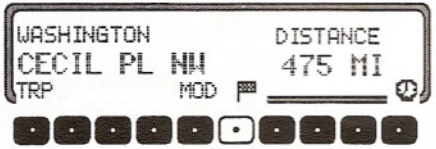
Select route setting by pressing the MOD multifunction key within 8 seconds.The route settings will be



displayed. Press the left knob again to return to normal route guidance. Alternately, the system will timeout after 8 seconds.

Destination Information with Stopover

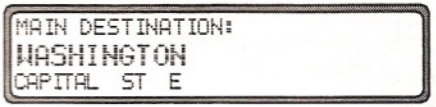
Press the left knob during route guidance.



The system will repeat the the last announcement and will anounce estimated time of arrival of the stopover. The display will show the stopover destination and distance.

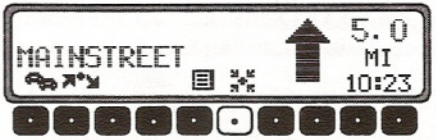
NOTE: You can switch the announcement on and off using the system settings menu.

Press the multifunction key to view the main destination information.

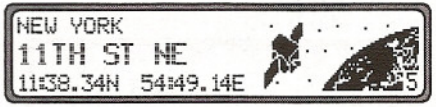


Return to route guidance by pressing the left knob again or wait for 8 seconds.

Requesting Current Position



Press the multifunction key to select current position.



The current position with street name, if it is available, degrees of latitude and longitude and the number of satellites received will be displayed. Press the right knob to return to the route guidance display.

NOTE: The current position can be requested even when route guidance is not active by pressing the left knob.

Requesting Route List

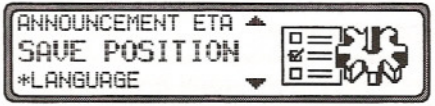
Press the multifunction key to select the recommended route list.

The current road and the road names up to the destination will be displayed. Scroll though the route list by turning the right knob. Press the right knob to return to the route guidance display.

NOTE: It will take a short time before the route list is compiled, after entering the destination. The time depends on the distance to the destination.

SYSTEM SETTINGS

Press the NAV button in the main navigation menu to request the system settings menu.



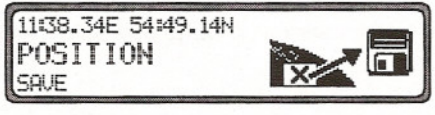
Using the right knob, make a selection and press to confirm. The following selections are available under this menu:

- SAVE POSITION: Save the current position in the destination memory.

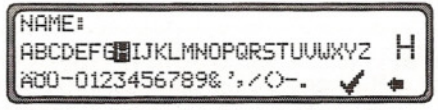
- *LANGUAGE: Set the language for the system.
- ANIMATION: Activate/de-activate the display animation.
- MEASURING SYSTEM: Set the measurement system to either US Standard (miles/yards) or Metric (kilometers/meters).
- ANNOUNCEMENT ETA: Activate/de-activate announcement of the expected time of arrival (ETA).

Save Position

Select SAVE POSITION in the system settings menu by turning the right knob and pressing it to confirm.



The display will show the coordinates (degrees of latitude and longitude) for the current position. Confirm by pressing the right knob and the following display will appear.

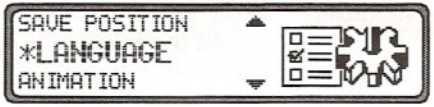


Enter the name for the current position (e.g. HOME) using the right knob to spell the name.

Press the right knob until the confirmation beep is heard to confirm the name entered. Entry can also be confirmed by the selecting the checkmark ✓ and pressing the right knob.

The destination memory is then called up automatically. Select the desired position in the destination memory by turning the right knob and pressing it to confirm.

Language



Select *LANGUAGE in the system settings menu by turning the right knob and pressing to confirm. The "*" is provided to indicate which selection is language, even if you do not understand the language that is currently selected.

The following languages are available:

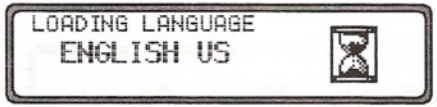
- ENGLISH UK
- ENGLISH US
- ESPANOL
- FRANCAIS

Select the language using the right knob. The language selection will be applied when the right knob is pressed. The language will be installed.
NOTE: If you select ENGLISH UK (for United Kingdom/ Great Britain), the displays and voice prompts will be slightly different than indicated in this manual.
Examples:
Fuel is called petrol.
Traffic circles are roundabouts.

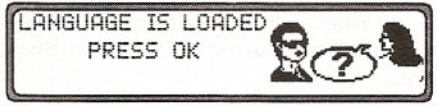
Female/Male Voice

You can choose either a male or a female voice.

Select the voice by turning the right knob and pressing it to confirm. Once confirmed, the voice is installed.

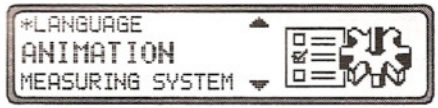


After the installation, you will be prompted to confirm.



Confirm the voice selection by pressing the right knob .

Animation



Select ANIMATION in the system settings menu by turning the right knob and pressing to confirm.

You can select between animations ON or OFF by pressing the right knob. Accept the settings by pressing and holding the right knob until the confirmation beep is heard.

Measuring System

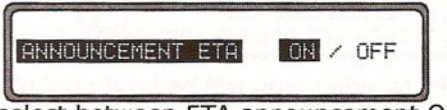
Select MEASURING SYSTEM in the system settings menu by turning the right knob and pressing to confirm.

Select the measuring unit using the right knob. Press and hold the right knob to apply the selection and return to the system settings menu.

NOTE: US STANDARD is for calculation in yards and miles. METRIC is for calculation in meters and kilometers.

Announcement ETA

Select ANNOUNCEMENT ETA in the system settings menu by turning the right knob and pressing to confirm.
NOTE: ETA is an abbreviation for estimated time of arrival.



You can select between ETA announcement ON or OFF by pressing the right knob. Press and hold the right knob to apply the selection and return to the system settings menu.
NOTE: The calculated ETA is based on the time zone where the trip originated unless you manually change the time zone during the trip.

CLOCK OPERATION

CLOCK OPERATION 92
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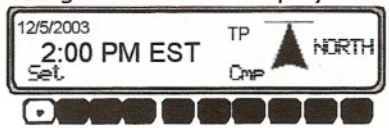
CLOCK OPERATION

The clock on the navigation unit receives its time from the GPS receiver in the radio. This time is known as Coordinated Universal Time (UTC), which is colloquially "Greenwich Mean Time (GMT)." You must choose your local time zone to display the current local time by setting the clock.

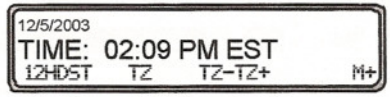
DISPLAYING THE CURRENT TIME

Display the time by pressing the **CLK** button. The current time remains in the display until another button AUD, CLK, OPT, CD, RAD, NAV or any preset is pressed. The selected time zone is displayed (e.g. EST for Eastern Standard Time). The current route guidance information, or compass if route guidance is not active, appears in the right side of the display.



TIME SET-UP MENU

Display the time setup menu by pressing the **SET** multifunction key.

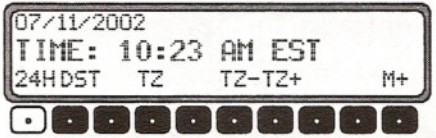


The current date appears in the upper left corner of the display. Any offset from the received time (e.g. 00:05 if the clock is set 5 minutes fast) appears in the upper right corner.

The current time, including offset, appears in the middle in the selected format (12 or 24 hour) along with the current time zone (e.g. EST).

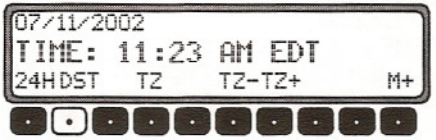
12/24 Hour Mode

Select 12 hour versus 24 hour time mode using the left most multifunction key (**12H** if the current selection is 24 hour mode or **24H** if the current selection is 12 hour mode). The label for the left-most multifunction key and the time display updates when you press the key. Save the selection by pressing **in** the right knob.



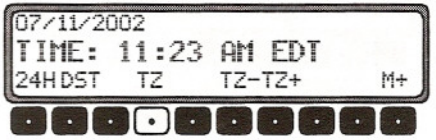
Daylight Savings Time

Select Daylight Saving Time by pressing the **DST** multi-function key. The time zone indicator toggles between standard time and daylight savings time (e.g. EST and EDT) and time will be offset by one hour (based on standard or daylight time). Save the selection by pressing **in** the right knob.

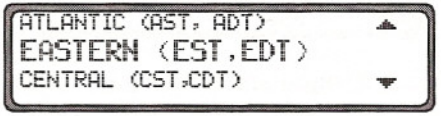


Time Zone Selection

Select the time zone menu by pressing the **TZ** multi-function key.



The time zone list is displayed. To select the desired time zone from the list, turn the right knob and press it **in** to confirm.



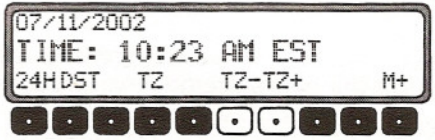
The following time zones are available:

NEWFOUNDLAND (NST, NDT)
ATLANTIC (AST, ADT)
EASTERN (EST, EDT)
CENTRAL (CST, CDT)
MOUNTAIN (MST, MDT)
PACIFIC (PST, PDT)
ALASKA (AST, ADT)
HAWAII (HST)
SAMOA (SST)

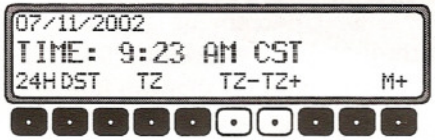
When you select a time zone from the list above, the navigation unit automatically adjusts local time from Coordinated Universal Time (UTC) to the selected time zone. If you have selected standard time, the display shows the left three characters from the parentheses in the list above. If you have selected daylight savings time, the display shows the right three characters from the parentheses in the list above.

Time Zone Increment/Decrement

Time zone increment/decrement is provided to facilitate driving through time zones during the course of a trip.



For example, when traveling from Detroit MI to Chicago IL, you pass from Eastern Time to Central Time. When you pass into the new time zone going west, press the **TZ-** multifunction key. As seen in the example below, the time is decreased by one hour for Chicago time and the display updates from EST to CST. When returning to Detroit, press the **TZ+** multifunction key to return to Eastern time.



Once you select the new time zone, press **in** the right knob to confirm the new setting.

Offsetting the Clock

For those who desire to set the clock fast, the time can be set forward using the **M-** and **M+** multifunction keys. When there is an offset, the upper right corner of the display shows how many minutes of offset (5 minutes in the example below). This offset is maintained when changing time zones. An offset is not shown if the offset is set to zero.

Increase the offset one minute by pressing the **M+** multifunction key. Press the key repeatedly until you have set the desired number of minutes (up to 59 minutes). If you accidentally set the time too fast, decrease the offset by repeatedly pressing the **M-** multifunction key until the desired offset is displayed. Once you set the offset, press the right knob to confirm the new setting.

7

USER MENU

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Display Setting 99
Flashing Security LED 99
Reception Optimization (Mono/Stereo).....100
Navigation Announcement Mode 100
Display Compass 101
Beep Volume (BEV) 102

USER MENU

REQUESTING/QUITTING THE USER MENU

Press the SOUND hardkey for about 2 seconds. The following display appears:

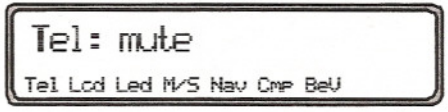
Tel: Telephone characteristics
Lcd: LCD display characteristic
Led: Security LED
M/S: Mono / Stereo
Nav: Navigation announcement mode
Cmp: Compass Display
BeV: Beep tone volume

Press the **AUD** button again to exit the user menu.

TELEPHONE CHARACTERISTICS

If you have a telephone system with a hands-free unit connected to the navigation unit, calls can be conducted through the radio system. There is no need for an additional speaker required for handsfree telephone systems. However, the signal cables (AF – telephone input, ground – telephone input and telephone mute) must be connected to the radio.

To select, request the user menu and press the **Tel** multifunction key, to select either audio signal or mute.

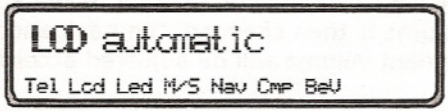


Mute: Mutes radio audio during phone calls
Audio Signal: Route phone audio to speakers during phone calls

DISPLAY SETTING

The display setting allows you to select from three different display versions.
Negativ: Negative display setting
Positiv: Positive display setting
Automatic: Automatic display setting (The display setting will be positive or negative based on the vehicle headlamp selection.)

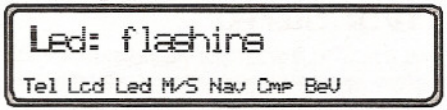
To select a setting, request the user menu and press the **Lcd** multifunction key to select negative, positive, or automatic. Automatic is controlled using the headlamp input. The setting is stored automatically.



FLASHING SECURITY LED

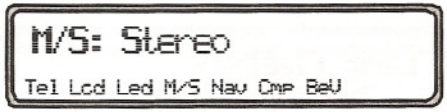
The flashing of the LED can be turned on or off with this function. The LED flashes when the unit is off.

Request the user menu and press the **Led** multifunction key to select either blinking (Led: on) or off (Led: off). The setting is stored automatically.



RECEPTION OPTIMIZATION (MONO/STEREO)

You can select between three different reception optimization settings to suppress reception-dependent interference and reflections.
Request the user menu and press the **M/S** multifunction key to select Stereo, Mono or Auto.



Auto: Normal operation (The system will switch from stereo to mono and back depending upon reception level. It will provide the optimum setting for almost all reception area).
Stereo: Exceptional reception conditions (The unit will be constantly set to stereo.)
Mono: Reception conditions in which reflections constantly occur (The unit will be constantly set to mono.)
The setting is stored automatically.

NAVIGATION ANNOUNCEMENT MODE

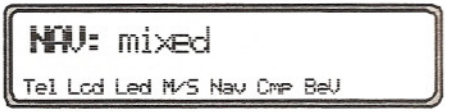
With this function, you can select how you wish to hear navigation announcements.

only: The audio source being listened to will be turned off during announcement and the navigation announcements will be heard with no background sound. The volume level for navigation announcement is completely independent of the volume level for normal audio.

mixed: The volume of the current audio source will be lowered. The navigation announcement will be set to the same volume as the current audio source but still adjustable within a range of +/-6 dB. If the audio source volume is then changed, the navigation announcement volume will be adjusted accordingly.

independ: The current audio source and the navigation announcements can be set to different levels. Both the current audio source and the navigation announcement will be heard simultaneously at their selected volumes.

To select, request the user menu and press the Nav multifunction key to make your selection.



The setting will be stored automatically.

DISPLAY COMPASS

A compass can be shown on the right side of the display when the route guidance is not active.

To select, request the user menu. Press the -> multifunction key to request the second level of the user menu. Press the Cmp multifunction key to select either show compass or hide compass.

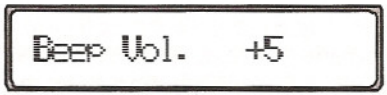
If the compass display is switched off and route guidance is not currently active, radio station abbreviations can be assigned to 9 multifunction keys in FM - DAS mode.

The setting is stored automatically.

BEEP VOLUME (BEV)

The volume of signal tones (e.g. storage confirmation) can be set.

To select, request the user menu and press the -> multifunction key to request the second level of the user menu. Press the BeV multifunction key. With the right knob select either 0 (Low) or +5 (Loud).



The setting is stored automatically.

8

SERVICE MENU

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Calibrate the System.....106
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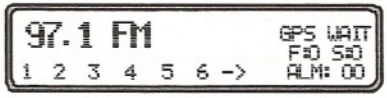
Request/Quit Service Menu 107

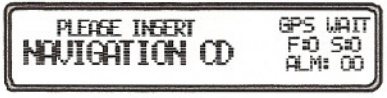
BATTERY RECONNECT

GPS WAIT and **ALM:00** appear in the display when the GPS receiver requires a download of the most current almanacs from the satellite. This happens when battery power has been reapplied following a battery disconnect.

If this display appears following two brief start-up screens, remove the CD from the navigation radio. .



The ALMANAC screen will display when no CD is loaded:



These displays report that:

- GPS reception is not detected (GPS WAIT) and
- no GPS almanacs are detected (ALM 00)

To download the almanacs, **make sure that no CD is loaded**, park the vehicle in an open area away from buildings and make sure that the GPS antenna has a clear view to the sky.

- **NOTE:** Leave the system turned on.

- **NOTE: DO NOT** move the vehicle during the following downloading procedure which may require 15 minutes or longer. You will see the progress as communication with the GPS satellite is established.

Check for the GPS status messages to appear on the right side of the display screen.

GPS ANTENNA ERROR: The GPS antenna is improperly connected or defective. Check the connector on the back side of the unit and the antenna cable.

GPS MODUL ERROR: This message may be displayed while the GPS almanacs are downloading, and should appear for no longer than one minute before GPS WAIT appears. If GPS WAIT does not appear, contact your dealer.

GPS WAIT: The GPS reception is not currently available. F:1 indicates actual date and time (UTC) has been received, but no position has been determined. Continue waiting until **GPS OK** appears on the display. If the number of satellites does not begin to increase within five minutes, check the position of the GPS antenna and of the vehicle.

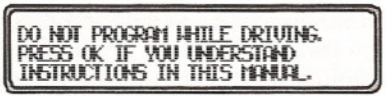
GPS OK: GPS reception is available.
- F:1 indicates a one-dimensional positioning
- F:2 indicates a two-dimensional positioning
- F:3 indicates a three-dimensional positioning
- S: indicates the number of satellites received
- ALM: indicates the number of downloaded almanacs.

After GPS OK appears or ALM shows at least 22 satellites, insert the navigation CD.

The LANGUAGE display will appear, requesting you to select the language for the navigation prompts. Select a language by turning the right knob until the desired language is highlighted. Press in the right knob to confirm your selection.

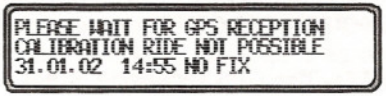
You will see the following display:

Press the right knob in again to complete language selection. The DISCLAIMER screen will appear:

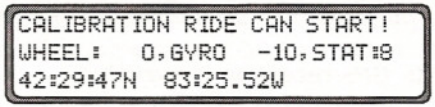


Confirm the warning message indicating that you have read and understood this user's guide.

The CALIBRATION screen may show CALIBRATION RIDE NOT POSSIBLE if the GPS fix is not 3-D. Move the vehicle to a less obstructed area for better reception.



CALIBRATE THE SYSTEM



The system will calibrate automatically as you drive your vehicle. After successful calibration, the navigation radio will be ready for operation and the main navigation menu or destination menu will appear on the display.

NOTE: The vehicle should be in an area without obstructions for better satellite reception.

If the system does not calibrate, see your dealer.

TRIGGERING RESET

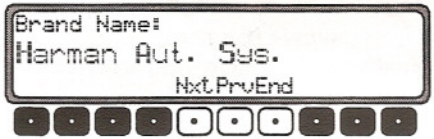
If the navigation radio fails to respond as described in this user manual, reset the internal navigation radio software by pressing the first multifunction key, the third multifunction key and the OPT button at the same time. Then insert the navigation CD to reconfigure the navigation operation and complete the reset procedure.

REQUEST/QUIT SERVICE MENU

The service menu allows the service technician to view radio characteristics. The following information can be called up in the service menu.

Model-No.: Displays model number
CD Changer Reset: Resets the CD changer if connected
CD: Serial Number
Radio Software: Displays Radio software version
Radio Bolo: Displays radio Bolo version
Navi Rom: Displays Navi Rom/Lib version
Navi Flash: Displays Navi Flash version
RTC Value: Displays RTC value

Select the service menu by pressing the NAV button and multifunction key 10 at the same time during radio mode.



Select individual items by pressing the Nxt or Prv multifunction keys. You may also use the right knob to view items.

To exit the service menu, press the End multifunction key.

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